

A Rabdel Ruiz-Salvador

List of Publications by Year in descending order

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56
papers

2,215
citations

218662

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58
docs citations

58
times ranked

2978
citing authors

#	ARTICLE	IF	CITATIONS
1	Zeolitic Polyoxometalate-Based Metal-Organic Frameworks (Z-POMOFs): Computational Evaluation of Hypothetical Polymorphs and the Successful Targeted Synthesis of the Redox-Active Z-POMOF1. <i>Journal of the American Chemical Society</i> , 2009, 131, 16078-16087.	13.7	265
2	Zeolitic imidazole frameworks: structural and energetics trends compared with their zeolite analogues. <i>CrystEngComm</i> , 2009, 11, 2272.	2.6	217
3	Selective sulfur dioxide adsorption on crystal defect sites on an isorecticular metal organic framework series. <i>Nature Communications</i> , 2017, 8, 14457.	12.8	133
4	Step-wise dealumination of natural clinoptilolite: Structural and physicochemical characterization. <i>Microporous and Mesoporous Materials</i> , 2010, 135, 187-196.	4.4	129
5	Porphyrin-based metal-organic frameworks for solar fuel synthesis photocatalysis: band gap tuning via iron substitutions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11894-11904.	10.3	84
6	An Elementary Picture of Dielectric Spectroscopy in Solids: Physical Basis. <i>Journal of Chemical Education</i> , 2003, 80, 1062.	2.3	77
7	Chemical Engineering of Photoactivity in Heterometallic Titanium-Organic Frameworks by Metal Doping. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8453-8457.	13.8	72
8	Modelling a Linker Mismatch Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16012-16016.	13.8	61
9	Electronic structure of porphyrin-based metal-organic frameworks and their suitability for solar fuel production photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23458-23465.	10.3	59
10	Tuning the separation properties of zeolitic imidazolate framework core-shell structures via post-synthetic modification. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25601-25608.	10.3	56
11	Interaction studies between drugs and a purified natural clinoptilolite. <i>Microporous and Mesoporous Materials</i> , 2003, 61, 117-125.	4.4	55
12	Zeolitic polyoxometalates metal organic frameworks (Z-POMOF) with imidazole ligands and μ -Keggin ions as building blocks; computational evaluation of hypothetical polymorphs and a synthesis approach. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8632.	2.8	51
13	Thermal and cation influence on ir vibrations of modified natural clinoptilolite. <i>Microporous and Mesoporous Materials</i> , 1998, 20, 269-281.	4.4	50
14	Preliminary characterization of drug support systems based on natural clinoptilolite. <i>Microporous and Mesoporous Materials</i> , 2003, 61, 249-259.	4.4	49
15	A computer simulation study of distribution, structure and acid strength of active sites in H-ZSM-5 catalyst. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 5716-5722.	2.8	47
16	μ -Keggin-based coordination networks: Synthesis, structure and application toward green synthesis of polyoxometalate-graphene hybrids. <i>Dalton Transactions</i> , 2012, 41, 9989.	3.3	47
17	Atomic charges for modeling metal-organic frameworks: Why and how. <i>Journal of Solid State Chemistry</i> , 2015, 223, 144-151.	2.9	47
18	Understanding Nanopore Window Distortions in the Reversible Molecular Valve Zeolite RHO. <i>Chemistry of Materials</i> , 2015, 27, 5657-5667.	6.7	42

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19	Controlling Thermal Expansion: A Metal-Organic Frameworks Route. <i>Chemistry of Materials</i> , 2016, 28, 8296-8304.	6.7	42
20	Aluminum Distribution in Low Si/Al Zeolites: Dehydrated Na-Clinoptilolite. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8417-8425.	2.6	41
21	Thermochemistry of strontium incorporation in aragonite from atomistic simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1320-1328.	3.9	34
22	The Si-Ge substitutional series in the chiral STW zeolite structure type. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15110-15122.	10.3	33
23	CeO ₂ thin films by flash evaporation. <i>Solid State Ionics</i> , 1997, 96, 89-93.	2.7	32
24	Space group symmetry and Al-O-P bond angles in AlPO ₄ -5. <i>Journal of Materials Chemistry</i> , 1996, 6, 1837-1842.	6.7	31
25	Clinoptilolite-heulandite polymorphism: structural features from computer simulation. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 1803-1813.	2.8	28
26	A free energy minimisation study of the monoclinic-orthorhombic transition in MFI zeolite. <i>Chemical Communications</i> , 2002, , 2544-2545.	4.1	28
27	Pressure-Induced Hydration Effects in the Zeolite Laumontite. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 469-472.	13.8	26
28	Comparing gas separation performance between all known zeolites and their zeolitic imidazolate framework counterparts. <i>Dalton Transactions</i> , 2016, 45, 216-225.	3.3	26
29	Modelling of hydrated Ca-rich zeolites. <i>Molecular Simulation</i> , 2002, 28, 649-661.	2.0	24
30	Surprising role of the BDC organic ligand in the adsorption of CO ₂ by MOF-5. <i>Microporous and Mesoporous Materials</i> , 2012, 163, 186-191.	4.4	24
31	Understanding Si/Al distributions in Al-rich zeolites: the role of water in determining the structure of Goosecreekite. <i>Chemical Communications</i> , 2001, , 531-532.	4.1	23
32	Silicon-aluminium distribution in dehydrated calcium heulandite. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1679-1685.	2.8	22
33	Critical Role of Dynamic Flexibility in Ge-Containing Zeolites: Impact on Diffusion. <i>Chemistry - A European Journal</i> , 2016, 22, 10036-10043.	3.3	22
34	Interplay of water, extra-framework cations and framework atoms in the structure of low-silicazeolites: the case of the natural zeolite Goosecreekite as studied by computer simulation. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 521-532.	2.8	21
35	Aluminium distribution in ZSM-5 revisited: The role of Al-Al interactions. <i>Journal of Solid State Chemistry</i> , 2013, 198, 330-336.	2.9	21
36	Conductivity activation energy and analysis of the sintering process of dielectric ceramics. <i>Materials Letters</i> , 1998, 36, 290-293.	2.6	20

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37	Computational study of substitution of Al by Fe ³⁺ in the AlPO ₄₋₅ framework. <i>Microporous and Mesoporous Materials</i> , 1999, 29, 361-367.	4.4	20
38	Location of extra-framework Co ²⁺ , Ni ²⁺ , Cu ²⁺ and Zn ²⁺ cations in natural and dealuminated clinoptilolite. <i>Microporous and Mesoporous Materials</i> , 2012, 155, 233-239.	4.4	19
39	Preparation of natural zeolitic supports for potential biomedical applications. <i>Materials Chemistry and Physics</i> , 2009, 118, 322-328.	4.0	18
40	Importance of Blocking Inaccessible Voids on Modeling Zeolite Adsorption: Revisited. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4462-4470.	3.1	17
41	Thermostructural behaviour of Ni-Cr materials: modelling of bulk and nanoparticle systems. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15912-15920.	2.8	13
42	A DFT-based simulated annealing method for the optimization of global energy in zeolite framework systems: Application to natrolite, chabazite and clinoptilolite. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109885.	4.4	13
43	Modelling a Linker Mix-and-Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie</i> , 2016, 128, 16246-16250.	2.0	12
44	Locating Extra-Framework Cations in Low-Silica Zeolites by a Combinatorial Approach of the Direct Space Method and Rietveld Refinement: Application to Ni ²⁺ and Co ²⁺ Enriched Clinoptilolite. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5964-5974.	3.1	10
45	Mg/Ca Partitioning Between Aqueous Solution and Aragonite Mineral: A Molecular Dynamics Study. <i>Chemistry - A European Journal</i> , 2012, 18, 9828-9833.	3.3	10
46	Chemical Engineering of Photoactivity in Heterometallic Titanium-Organic Frameworks by Metal Doping. <i>Angewandte Chemie</i> , 2018, 130, 8589-8593.	2.0	9
47	Si atoms in SAPO-31: A computational study. <i>Studies in Surface Science and Catalysis</i> , 2004, 154, 1439-1447.	1.5	5
48	Separation of electronic and ionic conductivity in mixed conductors from the ac response: Application to Pr _{0.56} Bi _{0.04} Li _{0.2} TiO ₃ . <i>Applied Physics Letters</i> , 2008, 93, 034105.	3.3	5
49	Proton mobility calculations in the presence of negative capacitances. <i>Europhysics Letters</i> , 1998, 44, 211-215.	2.0	3
50	Approaching the structure of heavily defective ionic oxides through atomistic modeling. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 3521-3524.	0.8	3
51	Screening heteroatom distributions in zeotype materials using an effective Hamiltonian approach: the case of aluminogermanate PKU-9. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18047-18055.	2.8	3
52	Unravelling the key factors in the chlorine-promoted epoxidation of ethylene over a silver-copper oxide nanocatalyst. <i>Nanoscale</i> , 2022, 14, 7332-7340.	5.6	3
53	Reactivity Analysis in Diamond Surfaces with a Density Functional Calculation. <i>Structural Chemistry</i> , 2001, 12, 101-111.	2.0	2
54	Chemical insertion in the perovskite solid solutions Pr _{0.5+x} Li _{0.5-3x} Bi _y - ₂ xTiO ₃ : Implications on the electrical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 563-569.	3.5	2

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55	Fitting electron density as a physically sound basis for the development of interatomic potentials of complex alloys. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18647-18656.	2.8	2
56	Thermostructural Characterization of Silicon Carbide Nanocomposite Materials via Molecular Dynamics Simulations. <i>Advanced Composite Materials</i> , 2022, 31, 485-504.	1.9	0